Red Hat JBoss Web Server

Build, manage, and provide security for modern web applications and infrastructure

"We can now deliver web developments and B2B site improvements with greater speed and offer a seamless end-user experience."[1]

Theresa Payne
Senior Manager of Web Development and Support, ASX

Product Overview

Whether you are looking to build a simple Java™ application server, an enterprise web server, or an entire enterprise application infrastructure, you likely have too much to do and limited resources. How can you address growing demand, but avoid costly complexity?

Red Hat® JBoss® Web Server simplifies the development and management of open source web application environments. By including all of the popular open source technologies for building, deploying, and maintaining web applications and large-scale websites, JBoss Web Server makes it easy for enterprises to manage, administer, and provide security for web environments of any size.

JBoss Web Server combines market-leading open source technologies with enterprise capabilities to provide a single solution for large-scale websites and lightweight Java web applications. It includes a certified, production-ready version of Apache Tomcat that is delivered through an affordable subscription model by experts in enterprise open source middleware. A JBoss Web Server Plus subscription also includes the Hibernate framework for object-relational mapping and persistence.

Red Hat leads and contributes to popular open source projects, using code developed in the community to create JBoss Web Server, which is then backed with a multiyear product support life cycle. Production-ready versions of these components, combined with enterprise features for operational management and security tracking, give IT enterprises a stable and more secure web application infrastructure with long-term reliability.

Benefits

Red Hat JBoss Web Server is a single solution for web applications, complete with all of the software and common connectors you need for typical lightweight Java application deployment. It includes stable versions of 100% open source, production-ready technologies that have been certified and tested by Red Hat and are backed by a long-term enterprise product life cycle.

Table 1. *Red Hat JBoss Web Server benefits*

Benefits	Description
Reduced complexity	Simplify your use of popular open source software and avoid integration and version conflicts. A single subscription includes certified, integrated software with everything you need to build and maintain simple web applications.

1 *Red Hat customer success story, "ASX modernizes IT application platform, gains speed and savings." redhat.com/en/success-stories/asx.*

Benefits	Description
Stabilized life cycle	Enjoy stable versions of popular open source software backed with long-term, enterprise product life cycles. Each release benefits from predictable updates that include defect fixes and non-intrusive features. JBoss Web Server maintains application compatibility for up to five years.
Easy management	Each subscription includes access to the Red Hat enterprise IT operations portal for software management, including update and alert notifications. Easily manage configurations, inventory your applications, and deploy updates across your business within seconds.
Security	Take advantage of the Red Hat dedicated security response team, which identifies, classifies, and tracks security issues; outlines impacted use cases; and delivers critical security updates.
Support	Red Hat has over 10 years of enterprise expertise leading, shipping, maintaining, and supporting Apache software. Red Hat's technical staff works together to offer award-winning enterprise open source support.[2]

Deployment Options

Red Hat JBoss Web Server is a flexible solution for a wide variety of application infrastructure uses. With a single subscription, components can be deployed separately or together to support a variety of web application types, including:

Simple Java Application Server

Take advantage of the popular Apache Tomcat server to quickly build, deploy, and manage simple Java applications and services. Add subscriptions for popular open source frameworks, like Hibernate, to easily expand your application's capabilities.

Enterprise Open-Source Application Infrastructure

Combine the capabilities of JBoss Web Server components or add Java Platform Enterprise Edition (Java EE) capabilities with additional Red Hat Middleware solutions for complete coverage of any Java application workload in your enterprise.

2 *https://access.redhat.com/recognition.*

Technical Specifications

***Table 2**. Red Hat JBoss Web Server components*

Component	Description
Apache Tomcat	A servlet container in accordance with the Java Servlet Specification. JBoss Web Server contains Apache Tomcat 9.
Apache Tomcat Native Library	A Tomcat library that improves Tomcat scalability, performance, and integration with native server technologies.
Tomcat-vault Extension	An extension for JBoss Web Server used for more securely storing passwords and other sensitive information used by JBoss Web Server.
Mod_cluster Library	A library that integrates Apache Tomcat and the Apache HTTP Server, allowing the Apache HTTP Server to be used as a load balancer for JBoss Web Server.
Hibernate framework	Hibernate provides easy generation, testing, and prototyping of your Hibernate or Java Persistence API (JPA) mapped projects. Use it to run queries, browse mappings, and generate code for your data projects.

***Table 3.** Platform and standards support*

JBOSS Web Server	Apache Tomcat	Operating System	Java Virtual Machine
5.1	9.0.7	Red Hat Enterprise Linux® 8 x86_64	OpenJDK 1.8, OpenJDK 11, OracleJDK 11
3.1	8.0.18, 7.0.59	Red Hat Enterprise Linux 7 x86_64 Red Hat Enterprise Linux 6 x86, x86_64	OracleJDK 1.8, 1.7 IBM JDK 1.8, 1.7 OpenJDK 1.8, 1.7
		Windows 2016 (x86_64)	OracleJDK 1.8
		Windows 2012 R2 Server (x86_64) Oracle Solaris 10 (x86, x86_64, SPARC 64) Oracle Solaris 11 (x86, x86_64, SPARC 64)	OracleJDK 1.8, 1.7

Subscription Benefits

Red Hat provides software subscriptions to Red Hat Middleware products that offer users ongoing value throughout the entire subscription term.

Features and benefits of a Red Hat Middleware subscription include:

- **Predictability.** Subscriptions are offered on an annual basis and include access to new versions at no additional cost. There are no large upfront license fees or hidden expenses.
- **Integrated and certified enterprise platforms.** Access enterprise open source middleware platforms, in source and binary form, along with enterprise product documentation specific to each product release.
- **Upgrades and updates.** Regular product updates provide enhancements, new features, new platform certifications, and access to the latest defect and security fixes.
- **Security response.** Subscriptions come with Red Hat's industry-recognized security response process to help customers proactively address potential security issues in their environment.
- **Long-term stability.** Every Red Hat Middleware product has a defined multiyear product life cycle with strict update policies that maintain application stability and compatibility for the long term.
- **24x7 technical support.** Unlimited incident support by open source middleware experts can include 24x7 coverage, with a one-hour response for critical issues.
- **Red Hat Customer Portal Access.** A single portal grants access to all of the benefits of a Red Hat subscription, such as enterprise software delivery, product updates, critical issue notifications, knowledgebase access, and case management.
- **Partner certifications.** Deploy solutions with confidence that your enterprise middleware is fully certified by leading Red Hat independent software vendor (ISV) partners.
- **Legal assurance.** Red Hat's Open Source Assurance program safeguards customers who are developing and deploying open source solutions from legal harm.

Subscription Sizing

Subscriptions to Red Hat Middleware products are provided in a virtualization-friendly model, used in increments of 16- and 64- processor core bands, and backed by a choice of enterprise service levels that support any type of critical deployment.

Key features of the Red Hat Middleware consumption model include:

- Processor cores that can be virtual or physical, making them ideally suited for the growing trend toward virtualizing middleware workloads.
- The ability to choose the types of processor cores that make sense for their environment. Different types of processor cores are treated the same.
- Technical support covering issues across the entire application life cycle, from development to deployment to management, across any supported environment.
- A subscription for any individual Red Hat Middleware product that includes development use for all of the products in the Red Hat Middleware portfolio.

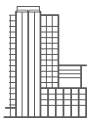
Training and Assistance

Red Hat and its certified partners offer a range of services for Red Hat Middleware solutions, including:

- **Developer support.** Expert advice spanning architecture, design, configuration, optimization, and tuning recommendations.
- **Technical account manager.** In addition to delivering standard and premium support options, Red Hat offers support services with enhanced options for customers who desire the deepest technical relationship with Red Hat.
- **Training and certification.** A full curriculum of courses on Red Hat Middleware for both developers and operations roles.
- **Consulting.** A wide range of consulting services, from small deployments to complete design, deployment, integration, migration, and management services.

For more information on Red Hat Middleware subscriptions, training, and services, visit redhat.com/en/products/middleware or contact your Red Hat account manager.

To learn more about Red Hat JBoss Web Server, visit redhat.com/en/technologies/jboss-middleware/web-server.



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Red Hat is the world's leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

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